

User's Guide

Bedienungsanleitung

Guide de l'utilisateur

Guida utente

Manual de Instrucciones

Användarhandbok

ENGLISH	4 ~ 8
---------	-------

DEUTSCH	9 ~ 13
---------	--------

FRANÇAIS	14 ~ 18
----------	---------

ITALIANO	19 ~ 23
----------	---------

ESPAÑOL	24 ~ 28
---------	---------

SVENSKA	29 ~ 33
---------	---------

FEDERAL COMMUNICATIONS COMMISSION (FCC)

Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To assure continued FCC emission limit compliance, the user must use only the power supply cord and shielded interface cable provided when connecting to a host computer. Also, any unauthorized changes or modifications to this equipment may void the user's authority to operate the equipment.

DEPARTMENT OF INDUSTRY CANADA (IC)

This class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.
Cet appareil numérique de la class B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.



CE certificate

This device complies with the requirements of the EEC directive 89/336/EEC with regard to "Electromagnetic compatibility".

Sigle CE

Cet appareil est conforme à la directive C.E.E. 89/336/CEE "Compatibilité électromagnétique".

CE-Kennzeichnung

Dieses Gerät erfüllt die Anforderungen der EG-Richtlinie 89/336/EWG "Elektromagnetische Verträglichkeit".

Simbolo CE

Questo apparecchio è conforme alla direttiva CEE 89/336/CEE inerente la "tollerabilità elettromagnetica".

Signo CE

Este aparato cumple con la norma CE 89/336/CEE "Compatibilidad electromagnética".

Tillverkarintyg

Denna apparat uppfyller kraven av EG-riktlinjen 89/336/EWG "Elektromagnetisk avstörning".

Die in diesem Gerät erzeugten Röntgenstrahlen sind durch die eigensichere Kathodenstrahlröhre ausreichend abgeschirmt. Nach Anlage III der Röntgenverordnung. Maximale Beschleunigungsspannung 28kV



TABLE OF CONTENTS (ENGLISH)

Attention	4
Troubleshooting	5
Features	6
Installation	6
Using OSD	6
OSD Controls	7
OSD Controls (Image Adjustment)	8
Power Management	8
Specifications	8
Pin Assignments	8

INHALTSVERZEICHNIS (DEUTSCH)

Achtung	9
Problembehebung	10
Merkmale	11
Installation	11
Gebrauch von OSD	11
OSD-Regler	12
OSD-Regler (Bildeinstellung)	13
Stromregelungssystem	13
Spezifikationen	13
Pin-Zuordnungen	13

TABLE DES MATIERES (FRANÇAIS)

Attention	14
Dépannage	15
Caractéristiques	16
Installation	16
Utilise OSD	16
Contrôles D'OSD	17
Contrôles D'OSD (Ajustement d'Image)	18
Contrôle D'alimentation	18
Spécifications	18
Affectation des Broches	18

INDICE (ITALIANO)

Attenzione	19
Risoluzione Di Piccoli Problemi	20
Caratteristiche	21
Installazione	21
Usare OSD	21
Controlli di OSD	22
Controlli di OSD(Regolazione Dell'immagine)	23
Gestione Dell'energia	23
Specifiche	23
Assegnazione dei Piedini	23

TABLE DE MATERIAS (ESPAÑOL)

Atención	24
Solución De Problemas	25
Características	26
Instalación	26
Usando OSD	26
Controles de OSD	27
Controles OSD (Imagen Ajuste)	28
Gestion de Potencia	28
Especificaciones	28
Señales en Las Patillas	28

INNEHÅLL (SVENSKA)

Observera	29
Felsökning	30
Särdrag	31
Installering	31
Använda OSD	31
OSD Kontroller	32
OSD Kontroller (Skärmjustering)	33
Strömhanteringen	33
Tekniska Data	33
Stiftens Funktion	33

ATTENTION : FOR YOUR SAFETY



Immediately turn the power OFF should any indication of trouble occur - if smoke, smells or strange noises are being emitted from the monitor.

Never remove the rear cover - there are lethal high voltage parts inside the monitor.

Only qualified technicians should access the interior of the monitor.

Do not allow anything to get inside the monitor - if fluids or other foreign objects enter the case accidentally, immediately turn the power OFF, unplug the power cord from the outlet and contact your dealer. Continuing to use the monitor may cause a fire, electrical shock or breakdown of the unit.

PRECAUTIONS IN INSTALLATION

- The power cord appliance coupler is considered the main disconnect device. The socket-outlet shall be installed near the equipment and shall be easily accessible.
- Ensure adequate ventilation. Keep the ventilation holes in the cabinet unobstructed - do not place objects on or around the monitor, do not install it in a bookcase or cabinet, install it at least 10cm from a wall.
- Shield the unit and its power cord from direct sunlight or heating appliances.
- Do not install the monitor in damp or dusty locations. Kitchens, factory work floors and so forth are places to be avoided.
- Route the power cord and I/O cable so that they will not be walked over or become entangled with moving objects.
- Do not overload electrical outlets.

PRECAUTIONS IN USE

- Never use the monitor if the power cord is damaged in any way. Do not place heavy or sharp objects on the cord. Protect the power cord from abrasion and solvents.
- Magnetic fields generated from speakers, motors, transformers and other sources can distort the color or tear the image on the screen. Ensure no such sources are in the monitor's vicinity.
- Other display units or televisions used in near proximity to this monitor can result in both interfering with each other's reception. Keep all units as far apart as possible.
- Be careful to avoid bumping, dropping or any physical shock, particularly while moving the monitor.

CARE OF THE UNIT

Use a clean, dry, cloth to clean the unit. If the monitor becomes dirty, use a well rung out cloth soaked in neutral detergent to gently wipe it clean. Polishers, abrasive cleansers, chemical cloths are all to be avoided. Do not attempt to scratch off any foreign material - especially on the screen surface.

DANGER

Serious shock hazards exist inside this display. DO NOT remove covers under any circumstances.

Connect only to a properly grounded electrical outlet.

TROUBLESHOOTING

NO PICTURE - Power LED not lit.

- Make sure the power cable is plugged in the wall and the back of the monitor.
- Try disconnecting the monitor from the power outlet for about 1 minute and reconnecting.

NO PICTURE - Power LED is orange.

- Make sure the computer is turned on.
- Make sure the monitor cable is properly connected to your computer.
- Check to see if the monitor cable has bent pins.
- The signal could be out of the monitors scanning range. If the video signal does not re-appear within 30 seconds you will need to restart your computer. If your operating system is Windows 95 press the F8 key when you see "Starting Windows 95" and select safe mode. If your operating system is Windows 98 hold down the Ctrl key during the boot process and select safe mode. If your operating system is Windows NT select "Windows NT (VGA)". Set the resolution back to the default of 800x600 and restart the system.

NO PICTURE - Power LED is green.

- Make sure the brightness and contrast controls are set correctly.
- Make sure the monitor cable is properly connected to your computer.
- Check to see if the monitor cable has bent pins.

COLOR APPEARS BLOTCHY

- The monitor may need degaussing. Degauss the monitor by powering it off and then on or use the manual degauss (if equipped).
- Remove any nearby objects that may generate a magnetic field (i.e. radio, phone, paper weight, speakers).
- Face the monitor East for best picture quality.

MISSING ONE OR MORE COLORS

- Check the user settings on the monitor and in the display properties utility in your operating system.
- Make sure the monitor cable is properly connected to your computer.
- Check to see if the monitor cable has bent pins.

IMAGE APPEARS TO FLICKER

- Verify that the vertical refresh rate is 72 Hz or greater by pressing the Menu button on the monitor and selecting the information icon. Correct this by using the display properties utility in your operating system.

PICTURE BOUNCES OR HAS WAVY OSCILLATIONS

- Isolate and eliminate any potential sources of electric or magnetic fields. Causes include electric fans, fluorescent lighting, AC adapters and laser printers.
- If your monitor is located close to another monitor, increase the distance between the monitors to reduce interference.
- Face the monitor East for best picture quality.

PICTURE HAS A DOUBLE IMAGE

- Eliminate the use of a video extension cable and/or video switch box.
- Face the monitor East for best picture quality.

EDGES OF THE PICTURE ARE NOT SQUARE

- Adjust the geometry controls until the picture is square with the bezel.

PICTURE IS TOO LARGE OR TOO SMALL

- Adjust the horizontal and/or vertical size controls until the image fills the screen.

DIM PICTURE

- Adjust the brightness and contrast controls.

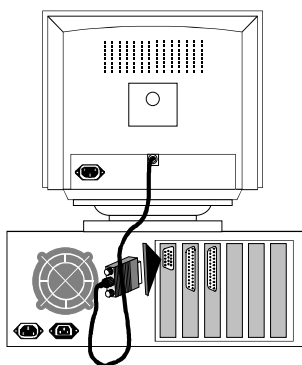
Should the problem persist, please contact Micron Technical Support - do not attempt to service the monitor yourself.

FEATURES

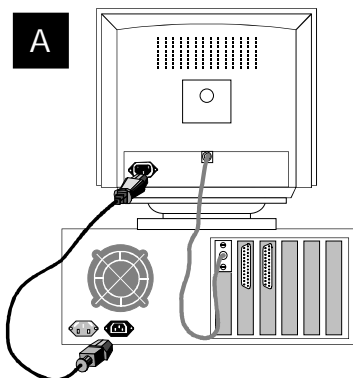
This high-resolution color display has been designed to be compatible with many standard graphics formats, including Video Graphics Array (VGA), Super VGA (SVGA) and Extended VGA (XGA). The key features are:

- 21"[19.5" Viewable] CRT color display with resolutions up to 1600 X 1200 pixels
- Digital controls and easy-to-use on screen display (OSD) adjustment interface
- Comprehensive color management controls
- Support for graphics cards with VESA-compatible DDC1/2B(Display Data Channel) interface for display-to-PC communications
- Hard power on/off switch and support of VESA-compatible power management system

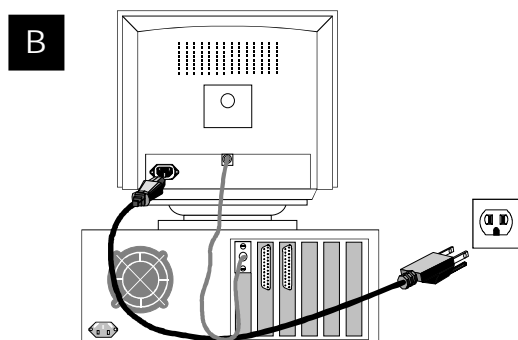
INSTALLATION



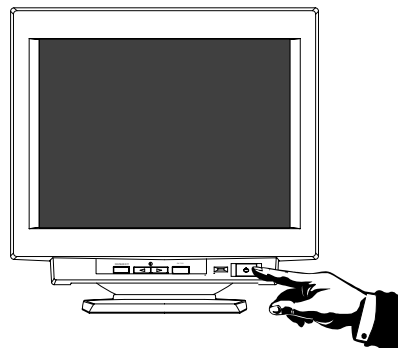
Connecting the signal cable



Connecting the power cable (A or B)

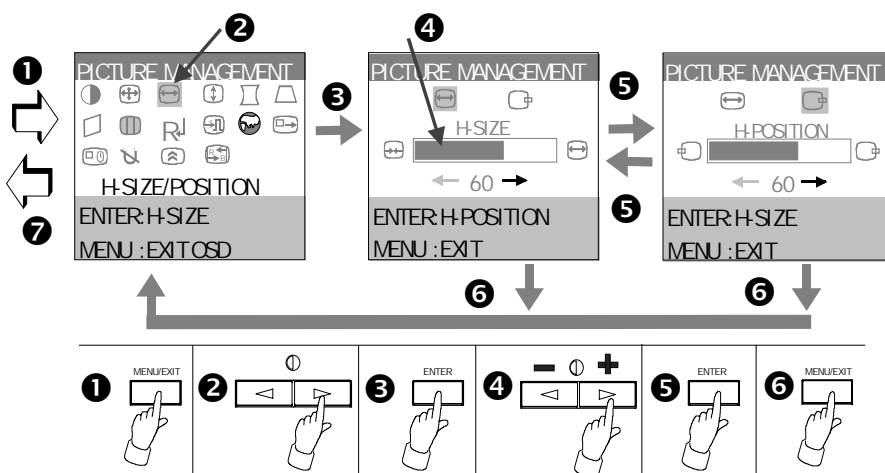


Connecting the power cable (A or B)



Turning the power on

USING OSD



- 1 Press the MENU button to bring up the OSD main-menu.
- 2 Use the ADJUSTMENT buttons to scroll around the icons and menus.
- 3 Press the ENTER button to activate the sub-menu.
- 4 Use the ADJUSTMENT buttons to set the selected function.
- 5 Press the ENTER button to select the alternative function on the sub-menu, or
- 6 Press the MENU button to return from a sub-menu to the main-menu.
- 7 Press the MENU button to leave OSD. Note: the OSD deactivates if no changes are made after 30 seconds. (Time-out is adjustable - see OSD TIME control)

OSD CONTROLS



Contrast

This control adjusts the contrast between the background (black level) and the foreground (white level) of the screen image.

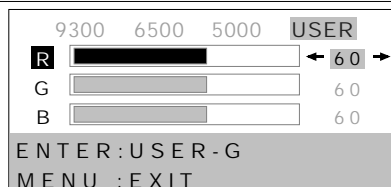


Brightness

This control adjusts the background brightness of the screen image.



Color Adjustment



Scroll to the RGB icon and press the ENTER button to activate the color adjustment sub-menu (see USING OSD).

Use the ADJUSTMENT buttons to select a preferred default color temperature. To individually adjust the RGB values, select the USER icon. Use the ENTER to select the color to be modified. Use the ADJUSTMENT button to change the color strength.



Recall

This control returns the monitor to factory settings.



Video Input Level

There are two options of signal input level, 0.7V and 1.0V. Factory preset is 0.7V.



Language

Five OSD Language versions are available for selection-English,French,German,Italian and Spanish. Factory preset is English.



Information

This function is to show information about scanning frequencies of the input signal and video resolution as well as if the input signal is a preset mode.



OSD Position

This function is to adjust the position of the OSD menu.



OSD Time

This function is to adjust the amount of time the OSD remains on the screen.



Degauss

This function is to degauss the monitor when suffering from environmental magnetic interference, causing screen color impurity.



Moiré Reduction

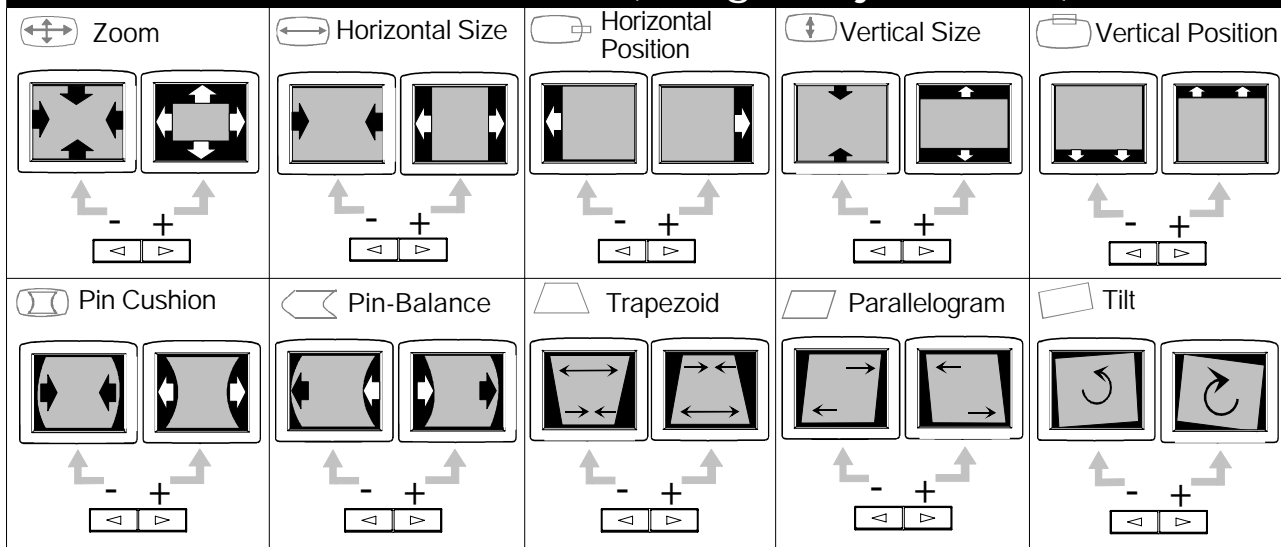
If the raster moiré is imperfect, seen as a shimmer or wave in the display, adjust the raster moiré to smooth out the picture.



H/V Convergence

To shift the red pixels and the blue pixels horizontally(vertically) across the image with respect to the green pixels. This control is optional.

OSD CONTROLS (Image Adjustment)



POWER MANAGEMENT

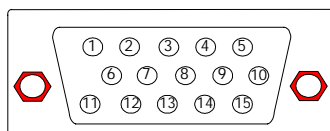
When connected to a system with VESA compatible power management, this display is capable of 3 different levels of power consumption: On, Standby, and Suspend/Off. Please refer to your host system's user manual for details of how your particular power management system functions.

Stage	LED	Function	Power Consumption
ON	Green	Normal	160W
Standby	Orange	Blank Screen	Reduced to < 15W
Suspend	Orange	Blank Screen	Reduced to < 5W
Off	Orange	Blank Screen	Reduced to < 5W

SPECIFICATIONS

Specifications	
Resolution Modes	640x480, 720x400, 800x600, 1024x768, 1280x1024, 1600x1200
CRT Size	21" (19.5" Viewable)
Dot Pitch	0.26mm
Phosphor	P22
Transmission	46%
Bandwidth	160MHz
Active Image: 1) In Preset Modes 2) Maximum visible diagonal	1) 387mm x 290mm(15.23"x11.42") 2) 497.57mm(19.58")
Horizontal Sync.	30-95KHz
Vertical Sync.	50-160Hz
Input Ratings	88-132VAC/180-264VAC 50/60Hz
Environment (Operating)	10°C (50°F) to 40°C (104°F)/0-90%Rh non-condensation
Environment (Non-operating)	-40°C (-40°F) to 65°C (149°F)/0-95%Rh non-condensation
Dimensions	504(↑)x500(↔)x490(∠)mm(19.84"x19.68"x19.29")
Weight	27.5kgs(60.62lbs)

PIN ASSIGNMENTS



1	Red video	6	Red return	11	Monitor
2	Green video	7	Green return	12	SDA (bi-dir)
3	Blue video	8	Blue return	13	Horizontal sync.
4	Monitor ground	9	No pin	14	Vertical sync.
5	No pin	10	Sync return	15	SCL

